1 CLAIMS

What is claimed is:

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4 Claim 1. A dynamic storage compartment adapted for 5 insertion within and upon an interior panel of a vehicle door

6 comprising:

a back panel member having a back surface, opposite sides, a top and a bottom, wherein said sides, top and bottom extend substantially perpendicular to said back surface;

a front panel member having a front surface, opposite sides, a top and a bottom, said front surface having an aperture therethrough;

a center member being constructed and arranged for mechanical engagement within and upon a surface of an inner panel of a vehicle door, said center member having opposite sides, a top and a bottom for connecting peripheral portions of said front and said back panel members so that said panel members face each other to form front and back inner boundaries of an interior portion of said storage compartment, wherein said sides, top and bottom of said back member are constructed and arranged to telescope inwardly and outwardly within said center member, wherein said storage compartment is at least partially recessed within an interior portion of said vehicle door; and

25 whereby attachment of said storage compartment to said

1 vehicle door provides enhanced interior storage for a vehicle.

Claim 2. The storage compartment as set forth in claim 1,
wherein said front panel member includes a covering means
movable between a first open position and a second closed
position, wherein said covering means is juxtaposed to said
aperture while in said closed position.

Claim 3. The storage compartment as set forth in claim 2, wherein said covering means includes a flexible flap, said flexible flap being connected to said front member for flexible movement between said open and said closed positions.

Claim 4. The storage compartment as set forth in claim 2, wherein said covering means includes a rigid plate, said rigid plate being connected to said front member for pivotal movement between said open and said closed positions.

Claim 5. The storage compartment as set forth in claim 2, wherein said covering means includes a plurality of narrow elongated rigid elements flexibly connected in an adjacent relationship, wherein at least one of said narrow elongated rigid elements is flexibly connected to said front panel member.

1	Claim 6. The storage compartment as set forth in claim 5,
2	wherein said elongated rigid elements are constructed and
3	arranged to form a plurality of accordion-like folds, wherein
4	terminal a terminal fold is connected to said front panel
5	member.
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7	Claim 7. The storage compartment as set forth in claim 5,
8	wherein said elongated rigid elements are constructed and
9	arranged for winding around an axle in a series of concentric
10	loops.
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12	Claim 8. The storage compartment as set forth in claim 7,
13	wherein said axle includes a spring retraction mechanism for
14	retraction and deployment of said covering means.
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16	Claim 9. The storage compartment as set forth in claim 2,
17	wherein said covering means includes a flexible sheet element,
18	said flexible sheet element being flexibly connected to said
19	front panel member.
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21	Claim 10. The storage compartment as set forth in claim 9,
22	wherein said flexible sheet element includes a plurality of
23	accordion-like folds.
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Claim 11. The storage compartment as set forth in claim 9,

1 wherein said flexible sheet element is constructed and arranged 2 for winding around an axle in a series of concentric loops. 3 4 Claim 12. The storage compartment as set forth in claim 5 11, wherein said axle includes a spring retraction mechanism 6 for retraction and deployment of said covering means. 7 8 Claim 13. The storage compartment as set forth in claim 1, 9 wherein back panel member includes a means for pressing said 10 back panel member outwardly of said center member and into said 11 door cavity when a window in said vehicle door is moved in an 12 upward direction. 13 14 Claim 14. The storage compartment as set forth in claim 15 13, wherein said means for pressing said back panel member 16 outwardly includes at least one spring member. 17 18 Claim 15. The storage compartment as set forth in claim 1, 19 wherein said vehicle door window cooperates with said back 20 panel member for pressing said back member into said center 21 member during downward movement of said vehicle door window. 22

Claim 16. The storage compartment as set forth in claim

wherein said back member includes a ramping surface

extending between said top and said back surfaces, wherein said

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- ramping surface is constructed and arranged to cooperate with a lower portion of said vehicle door window for pressing said
- 3 back member into said center member during downward movement of
- 4 said vehicle door window.

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Claim 17. The storage compartment as set forth in claim 1,
wherein said sides, top and bottom extend substantially
perpendicular to said front surface, wherein said front panel
member is constructed and arranged to telescope inwardly and

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- 12 Claim 18. A storage compartment adapted for insertion 13 within and upon an interior panel of a vehicle door comprising:
- 14 a back panel member having a back surface, opposite sides,
- a top and a bottom, wherein said sides, top and bottom extend
- 16 substantially perpendicular to said back surface;

outwardly within said center member.

- 17 a front panel member having a front surface, opposite
- 18 sides, a top and a bottom, said front surface having an
- 19 aperture therethrough;
- 20 a center member being constructed and arranged for
- 21 mechanical engagement within and upon a surface of an inner
- 22 panel of a vehicle door, said center member having opposite
- 23 sides, a top and a bottom for connecting peripheral portions of
- 24 said front and said back panel members so that said panel
- 25 members face each other to form front and back inner boundaries

- of an interior portion of said storage compartment, wherein said sides, top and bottom of said back member are constructed and arranged to telescope inwardly and outwardly within said center member, wherein said storage compartment is at least partially recessed within an interior portion of said vehicle
- a flexible covering element secured to said front panel
 member and movable between a first open position and a second
 closed position, wherein said covering element is juxtaposed to
 said aperture while in said closed position;
 - wherein said vehicle door includes a window, wherein said window cooperates with said back panel member for pressing said back member into said center member during downward movement of said vehicle door window, wherein an item stored in said interior portion of said storage compartment may flex said front panel member into an interior portion of said vehicle.

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door;

- Claim 19. A dynamic storage compartment adapted for insertion within and upon an interior panel of a vehicle door comprising:
- a back panel member having a back surface, opposite sides, a top and a bottom, wherein said sides, top and bottom extend substantially perpendicular to said back surface;
- a front panel member having a front surface including a plurality of pleated folds, opposite sides, a top and a hinged

1 bottom, said top surface having an aperture therethrough;

a center member being constructed and arranged for mechanical engagement within and upon a surface of an inner panel of a vehicle door, said center member having opposite sides, a top and a bottom for connecting peripheral portions of said front and said back panel members so that said panel members face each other to form front and back inner boundaries of an interior portion of said storage compartment, wherein said sides, top and bottom of said back member are constructed and arranged to telescope inwardly and outwardly within said center member, wherein said storage compartment is at least partially recessed within an interior portion of said vehicle door;

a lid member hingedly secured to said front panel member and movable between a first open position and a second closed position, wherein said covering element is juxtaposed to said aperture while in said closed position, wherein said lid member includes a keyhole aperture, said keyhole aperture constructed and arranged to cooperate with said front panel member in a lathed position and an unlatched position, wherein said latched position holds said front panel member against said door panel and said unlatched position allows said front panel member to expand inwardly into an interior area within said vehicle, thereby increasing storage space within said storage compartment;

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wherein said vehicle door includes a window, wherein said window cooperates with said back panel member for pressing said back member into said center member during downward movement of said vehicle door window, wherein an item stored in said interior portion of said storage compartment may flex said front panel member into an interior portion of said vehicle when said keyhole aperture is in said unlatched position.

Claim 20. A dynamic storage compartment adapted for insertion within and upon an interior panel of a vehicle door comprising:

a back panel member having a back surface, opposite sides, a top and a bottom, wherein said sides, top and bottom extend substantially perpendicular to said back surface;

a front panel member having a front surface, opposite sides, a top and a bottom, said front surface having an aperture therethrough, said sides, top and bottom extending substantially perpendicular to said front surface, wherein said front panel member is constructed and arranged to telescope inwardly and outwardly within said center member;

a center member being constructed and arranged for mechanical engagement within and upon a surface of an inner panel of a vehicle door, said center member having opposite sides, a top and a bottom for connecting peripheral portions of said front and said back panel members so that said panel

members face each other to form front and back inner boundaries
of an interior portion of said storage compartment, wherein
said sides, top and bottom of said back panel member and said
front panel member are constructed and arranged to telescope
inwardly and outwardly within said center member, wherein said
storage compartment is at least partially recessed within an

interior portion of said vehicle door;

a rigid covering element secured to said front panel member and movable between a first open position and a second closed position, wherein said covering element is juxtaposed to said aperture while in said closed position;

wherein said vehicle door includes a window, wherein said window cooperates with said back panel member for pressing said back member into said center member during downward movement of said vehicle door window, wherein said back panel member cooperates with said front panel member to press said press said front panel member into an interior portion of said vehicle.